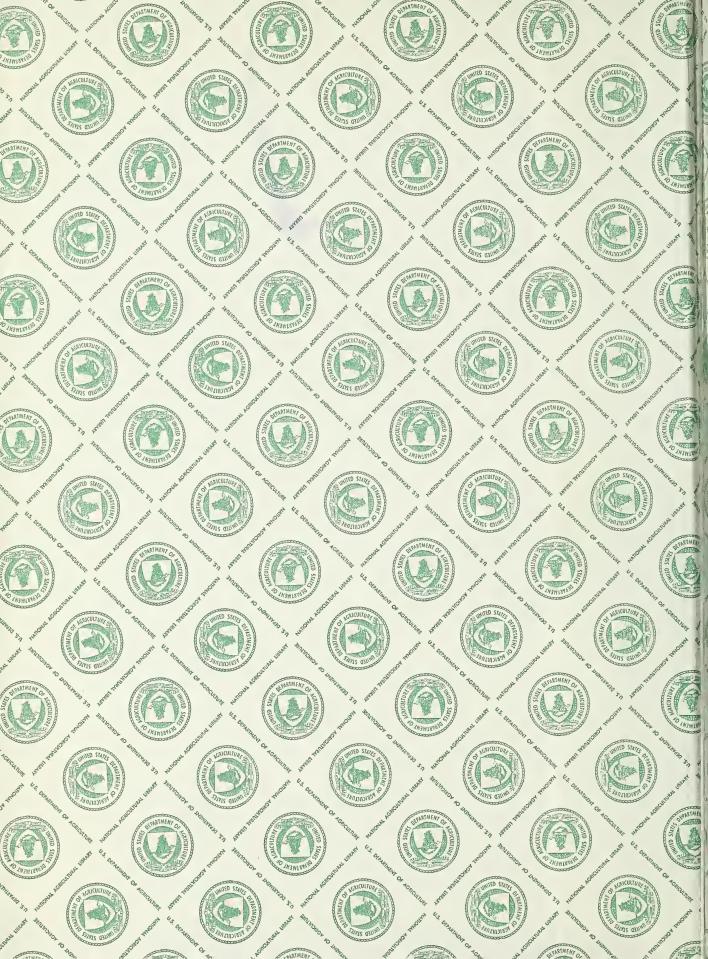
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FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEY and WATER SUPPLY FORECASTS for WYOMING

UNITED STATES DEPARTMENT of AGRICULTURE...SOIL CONSERVATION SERVICE, and

STATE ENGINEER of WYOMING

Data included in this report were obtained by the agencies named above in cooperation with the U.S. Forest Service, Bureau of Reclamation, National Park Service, and other Federal, State and private organizations.

FEB. 1, 1958

UNITED STATES DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY AND WATER SUPPLY FORECAST REPORTS:

The climate of the cultivated and populated areas of the West is characterized by relatively dry summer months. Such precipitation as occurs falls mostly in the winter and early spring months when it is of little immediate benefit to growing crops. Fortunately, most of this precipitation falls as mountain snow which stays on the ground for months, melting later to sustain streamflow during the period of greatest demand during late spring and summer. Thus, nature provides in mountain snow an imposing water storage facility.

The amount of water stored in mountain snow varies from place to place as well as from year to year and accordingly, so does the runoff of the streams. The best seasonal management of variable western water supplies results from fore-knowledge of the runoff.

A snow survey consists of a series of about ten samples taken with specially designed snow sampling equipment along a permanently marked line, about 1000 feet in length, called a snow course. The use of snow sampling equipment provides snow depth and water equivalent values for each sampling point. The average of these values is reported as the snow survey measurement for a snow course.

Snow surveys are made monthly or semi-monthly beginning in January or February and continue through the snow season until April, May or June. Currently more than 1300 western snow courses are measured each year. These measurements furnish the key data for water supply forecasts.

By relating snow survey measurements taken over a period of years to spring-summer runoff during the same period, relationships have been developed which make it possible to forecast seasonal runoff several months in advance of occurrence. In order to make a forecast, once a forecast relationship has been developed, the maximum snow water content at previously selected key snow courses is usually entered in the forecast relationship. More accurate forecasts are often obtained when other factors such as soil moisture, base flow and spring precipitation are considered and included in the forecast relationships.

Listed below are the Federal-State-Private Cooperative Snow Survey and Water Supply Forecast reports available for the West which contain detailed information on snow survey measurements, streamflow forecasts, reservoir storage, soil moisture and other guide data to water management and conservation decisions.

PUBLISHED BY SOIL CONSERVATION SERVICE

REPORTS	ISSUED	COOPERATING WITH	LOCATION
RIVER BASINS			
CDLDRADO, RIO GRANDE	MONTHLY (FEBMAY),	CDLO. EXP. STATION	FT. COLLINS, COLD.
COLUMBIA Includes Alaska	MONTHLY (JANMAY)		BOISE, IDAHO
UPPER MISSOURI	MONTHLY (FEB MAY)	MDNT.AGR.EXP.STATION	BDZEMAN, MONTANA
WEST-WIDE	SEMI-ANNUALLY(OCT, 1 AND APR.1)	COOPERATORS	PORTLAND, OREGON
STATES			
ARIZONA		SALT R. VALLEY WATER	PHOENIX, ARIZONA
NE VADA	MONTHLY (FEB APR.).	NEVADA STATE ENGINEER	RENO. NEVADA
ORE GDN	MONTHLY (JANMAY)	ORE.AGR.EXP.STATION	PORTLAND, OREGON
UTAH	Monthly (JanMay)	UTAH STATE ENGINEERUTAH AGR.EXP.STATION	SALT LAKE CITY, UTAH
WASHINGTON	Monthly (FEB May)	WASH. STATE DEPT. DF CONSERVATION AND DEVELOPMENT	SPDKANE, WASHINGTON
WYDMING	MONTHLY (FEB JUNE).		CASPER, WYDMING
Copies of the	various reports may be	e secured from: Head, Water Supp Soil Conservation	

PUBLISHED BY OTHER AGENCIES

209 S.W. 5th Avenue, Portland 4, Oregon

OTHER SNOW SURVEY REPORTS	
BRITISH COLUMBIA MONTHLY	(FEBJUNE)
CALIFORNIAMONTHLY	(FEBMAY)

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

WYOMING

Issued

February 1, 1958

Report Prepared
by
Ceorge W. Peak
Snow Survey Supervisor
Soil Conservation Service
and
State of Wyoming

345 Tast 2nd Street
P. O. Box 699
Casper, Wyoming

Issued by

B. H. Hopkins State Conservationist Soil Conservation Service Earl Lloyd State Engineer of Wyoming Cheyenne, Wyoming



PRELIMINARY WATER SUPPLY OUTLOOK FOR WYOMING

February 1, 1958

The storage of water in the mountain snow packs of Wyoming range * from 80 to 90 per cent of the 1938-1952 average. * ж * * The status of the state's reservoirs is very good. Current useable * storage is well above the normal amount for this time of year. * * * In general, the deficit on the snow water throughout the state and * 米 the above average storage combine for an expected normal water * * supply for the 1958 growing season. *

SNAKE RIVER BASIN

Snow surveys in the Snake River Watershed above Moran indicate a flow into Jackson Lake of 93 per cent of normal. The watersheds below Jackson Lake drop progressively to 84 and 78 per cent at the Wyoming-Idaho line.

Jackson Lake storage is standing at 613, 130 acre-feet and Palisades at 568, 260.

GREEN RIVER BASIN

Conditions on the Green River at this time indicate a seasonal (April-September) runoff of 87 per cent of normal.

NORTH PLATTE BASIN

The February 1 snow pack on the North Platte Watershed indicates a seasonal runoff of 91 per cent at Saratoga. The North Platte reservoirs are 153 per cent of the average February 1 storage.



WIND RIVER BASIN

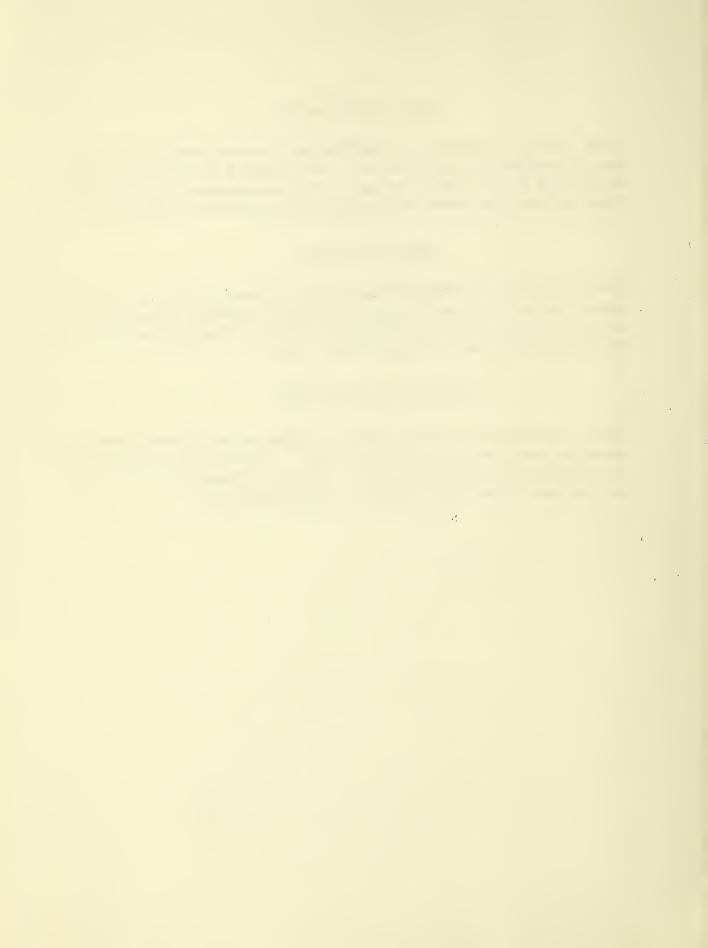
In the Wind River Basin, the combination of water snow and soil moisture is considerably below normal in the Dubois area indicating a runoff of about 80 per cent of average. The southern end of the Wind River Range is somewhat better with expected yields of 85 to 88 per cent.

BIG HORN BASIN

The Owl Creek and Greybull Watersheds are low in snow water accumulation, however, the data is taken from low elevation courses that do not accurately express high watershed storage. The expected yield into Buffalo Bill Reservoir is about 80 per cent.

BIG HORN MOUNTAINS

This is only the third year of snow surveying in the Big Horn Mountains, so not too much may be said of this area. The snow pack at this time is ranging from 73 to 98 per cent of last year's February 1 accumulation and from 53 to 66 per cent of the 1956 snow pack.



INDEX TO WYOMING SNOW COURSES

reinaga Saein	Wyoming		LOCATI	ON	Renge	Record	Mona.	Mone.		Orainage Seain	Wyoming		LOCATI	ION	Range	Record	Meas.	hoga
nd Course Name	Number	Elev.	Lat.	Twp.	Long.	Regan	Dates	By		ind Course Name	Number	Elev.	Lat.	Dwp.	Long.	Segan		8y
ADISON RIVER									9	ROW CREEK								
orrie Sesin 1 Mile *m est Yellowstone *m	10E2 11E6 11E7	7500 7150 6700	44°44¹ 1 34	11S 13S	110°42' 5E 6E	1936 1934 1934	3,4 1,2,3,4,5 1,2,3,4,5	2 6		ola Mountain #2	5H 1	6700	35	15 N	72%	1936	2,3,4,5	1,4
ETTOM210ME	IIE/	6700	34	135	OL	1994	1,2,0,4,5	0	~	Ibany	6H11	9400	18	14N	76%	1949	2,3,4,5	1
anyon ooke City *m	10E3 10D7	7750 7400	44°44¹ 25	9 S	110°30'	1938 1937	1,2,3,4,5		8	ottle Creek loxelder heper Mountain	6H8 5G1 6G1	8200 9000 8700	24 31 16	14N 30H 32N	85W 75W 79W	1936 1950 1954	2,3,4,5 2,3,4,5 1,2,3,4,5	1 1
revice Mountain on set Entrance ske Camp	10D5 10E6 10E4	8400 7000 7850	22 17 44°34°	98 52N	9E 109W 110°24	1935 1948 1937	3,4 1,2,3,4,5 1,2,3,4,5	4	C F	olumbine *C	633 6132	9300 9200	21 21	5N 13N	8 2W 78W	1936 1936	2,3,4,5	1
upine Creek humb Divida	10E1 10E7	7300 7900	44°541 44°221		110°37'	1938 1946	1,2,3,4,5	2 5		LaBonte North Ser rett Creek#2 North Fre nch Cr eek#1	5G2 6H5 6H4	9400 10200	11 30 27	27N 16N 16N	74W 60W 60W	1949 1936 1938	2,3,4,5 2,3,4,5 2,3,4,5	1 1,4 1,4
ylvan Pasa LARK'S PORK	10E5	7100	12	52N	110%	1936	1,2,3,4,5	2		North French Greek#2 Northgate *c Old Battle	6H14 6J7 6H10	10 200 8500 9800	27 7 29	16N 11N 14N	80W 79W 85W	1956 1950. 1936	2,3,4,5 2,3,4,5 2,3,4,5	1,4
odgepola	9E1	8200	32	56N	10 <i>6</i> W	1940	2,3,4,5	1,4	1	Park View ac Ryan Park #2	6J 2 6H6	9 200 8400	24 34	5% 16%	78W 8 LW	1936 1936	2,3,4,5	1,4
ND RIVER										Webbar Spring	6H9 6J5	9000 9500	27 1	14 N 4 N	85₩ 76%	1936 1938	2,3,4,5	1,4
g Warm ooke Leke #3 srrougha Creek	9F12 10F8 9F4	9200 9800	36 23 15	42N 44N 43N	109W 110W 107W	1955 1939 1948	2,3,4,5 2,3,4,5 2,3,4,5	1 1		HEYENNE RIVER								
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st Fork sysor Creak ttle Yarm	9F13 9F7 9F8	9200 8500 9500	23 12 %	44N 41N 41N	104W 108W 108W	1956 1948 1948	2,3,4,5 2,3,4,5 2,3,4,5	1	9	GREEN RIVER		COLOR	ATTE	DIMITING	•			
meridan R.S. #1 of	9F 5 9F 14	7500 7500	3 3	42N 42N	109W 109W	1939 1955	2,3,4,5	1		Big Park	10G11 10G2	8700 8750	7 6	27N 34N	117W 115W	1951 1948	2,3,4,5	1
-Cress Rench Owotoe Pass	10°9	9600	1 29	43N 44N	107d 110W	1940 1936	2,3,4,5	5		Dutch Jos R.S. East Rim Divide Green River Lakes	9G5 10F17 9F18	8700 7950 8100	32 32 30	31'. 37N 39	104# 111W 106W	1936 1936 1956	2,3,4,5 1,2,3,4,5 2,3,4,5	1 1
DPO ADIE RIVER	832	9500	23	31N	10 lW	1939	2,3,4,5	1	i	Groa Vantre Hewinta R.S. *u	10F19 10J4	8750 9500	36 33	40 N 3 N	114W 13E	1948 1930	2,3,4,5	i
uoe's Camp.	895 933	6500 10000	24 22	32 N 2S	10 JW	19 6 5 19 4 8	2,3,4	1	i	Hola-in-the-Rook *u Kelly R.S. Kendell R.S.	10J1 10G12 10F15	9150 8200 7900	13 13 23	2 N 26 N 3 8 Y	15E 118W 110W	1931 1951 1936	4 2,3,4,5 2,3,4,5	1
equito Park R.S wmill Glada outh Pass	964 861, 863	9500 8500 9000	23 3 13	2S 31N 30N	3W 101W 101W	1940 1939 1939	2,3,4,5 2,3,4,5 2,3,4,5	1 1 1	1	Loomia Perk Yulligan Perk Old Battle	10F16 9G1 6H10	8500 8900 9800	14 17 29	37N 35N 14N	111W 108W 85W	1936 1936 1936	2,3,4,5 2,3,4,5 2,3,4,5	1 1 1,4
Lawrance R.S.	9F11 9G2	9000 8400	26 5	1N 2S	4W / 2W	1940 1948	2,3,4,5	1	1	Pinay-LaSarga Peison Mesdows	10G10 10G6	8820 8500	19 29	29N 30N 29E	114W 4	≈ 1937 1948	2,3,4,5	1
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mber Creek #2 od River #1	9E3 9F1 9F15	8600 8000	25 28 28	47N 46N 46N	103W 103W 103W	1958 1939 1956	2,3,4,5	1 1		Astar Creek Saae Camp	10E8 10F2	7700 6900	44°17'	46N ***	110°37°	1919 1947	2,3,4	5 5 2
od River #2 OSHONE RIVER	9F 15	8000	26	465	103#	1926	2,3,4,5	•		Coultar Creek Glade Creek Greesy Lake	10E10 10E13 10E15	7600 7200 7265	44009° 44008° 6	48N	117%	1919 1919 1940	2,3,4 2,3,4 2,3,4,6	5
st Entrance lven Pasa	19E6 10E5	7000 7100	17 12	82N 52N	109W 110W	1948 1936	1,2,3,4,5	2		Nuckleberry Divide Lawis Lake Divide Moran	10E14 10E9 10F4	7300 7900 6800	32 44°13' 6,17	48N 45N	115W 110°40' 114W	1919 1919 1919	2,3,4 · 2,3,4,5 · 2,3,4	5 5 5
WOOD CREEK									:	Moran Sey Snake River Station Thumb Divide	10F3 10E12 10E7	6800 6780 7900	14 44°08'	45K	116W 110°40' 110°35'	1919 1919 1951	2,3,4	5 6
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ELL CREEK									1	Cottonwood Lake Daadman Ranch East Rim Divide	10G5 10G1 10F17	7500 6534 7950	25 28 32	31N 35N 37N	118W 116W 111W	1936 1936 1936	2,3,4,5 1,2,3,4,5 1,2,3,4,5	1,4
ald Mountain eaver-Tongue Divide	7E21 7E20	9600 9200	33 .	56N 55N	91W 91W	1956 1956	2,3,4,5	1	1	Four Mile Masdows Freys Soundary	10F6 10F18	7770 5800	35 33	45N 37N	112W 116W	1936 1936	2,3,4,5	5
ono-Spring Divide renite Creek Cemp ronite Peac	7E 18 7E 22 7E 17	9200 ° 7800 8950	752 15 19	55 N 53 N 54 N	89W 89W 88W	1956 1956 1956	2,3,4,5 2,3,4,5 2,3,4,6	1 1 1	-	Gros Ventre Grover Park Divide Loomis Park	10F19 10G3 10F16	8750 7600 8500	36 27 14	40N 33N 37N	111W 118W 111W	1948 1936 1936	2,3,4,5 1,2,3,4,5 2,3,4,5	1,4
inger Greek	7E4 7E 23	8800 9600	32	53 K 52 N	88W 88W	1935 1956	2,3,4,5	1	:	Poison Meadows Teton Pasa #2 Torwotes Psas	10G6 10F13 10F9	8500 8500 9600	29 24 29	30N 41N 44N	116W 116W 110W	1949 1936 1936	2,3,4,5 1,2,3,4,5 2,3,4,5	1,4
ORCUPINE CREEK				0011			.,.,.,.	-	j	furpin Meadowe fallowjacket Salt Rivar Summit	10F5 10F10	6930 7675	14 33	45 N 42 N	112W 112W	1936 1936	2,3,4	5
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ne-Spring Divide	7E18 7E1	9200 7900	32 36	55N 56N	8 97N 8 9W	1956 1950	2,3,4,5 2,3,4,5 2,3,4,5	1	1	Goodman Ra nch su Kayden Fork su	10J6 10J7	7900 9300	19 1	3N 1S	10E 9E	1937 1951	3,4,5 4 4,5	
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oom Craek	7E14 7E17	9300 8 950	32 19	55N 54N	87W 86W	1966 1956	2,3,4,5	1	1	Poison Mendows Salt River Summit	1036 1008	8500 7900	29 32	30 N 29N	11670 11870	1948 1948	2,3,4,5	1,4
ake Geneva orth Tongus	7E16*	9000 8800	7 17	52N 55N	8 <i>6</i> 77 8 <i>9</i> 70	1956 1956	2,3,4,5	1	Ξ			1						
itley Lake ucker Creok 1 teambost Point	7E11 7E12 7E10	9000 7500	10 19 32	551: 55N 56N	88W 87W 87W	1956 1956 1966	2,3,4,6 2,3,4,5 2,3,4,5	1 1 1										
OOD ROOK G.S.	7E13	8500	3	54 K	86W	1956	2,3,4,6	1		114								
szy Woman -	631	8200	6	47N	64% 64% : "	1958	2,3,4,5	1	:	ς'.	1							
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nion Gu lch oldier Perk our Dough	7E27.	8100 8700 8500	31 36 17	48N 51N 49N	85₩ 85₩ 84₩	1956 1950 1936	2,3,4,6 2,3,4,5 2,3,4,5	1 1 1										
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arsen Creok outh Pess	9G8 8G3	9000	12 13	30N	10377 101#	1949 1939	2,3,4,5	1		b. Numerals refer to 1. Soil Conse 2. U. S. Nat	o Agenoy ervatien ional Par	that se Service k Servi	oures th	o snow au	rvay, as i	Collows		
rooklyn Lake #1	6H1	10 200	11	16N	79N	1936	2,3,4,5	1	,	3. U. S. Ind: 4, U. S. Fore 5. U. S. Bure	ian Sorvi est Servi	00.						
rooklyn Lake #2 sedman Hill #c	6H13 5J8	10200	11 26	16N 10N	79 ग 75₩	1956 1937	2,3,4,5	1		8. U.S. Gao	logical S	arvica.	~u.					
ox Park sirpin Turn #2	6H12 6H2	9200 9500 8700	21 24 29	13h 16h 16h	76W 7977 78W	1936 1936 1936	2,3,4,5 2,3,4,6 2,3,4,6	4 1,4 1,4		d. Formerly Muddy Pr e. North Powder #1 of. Sheridan Creek pr	destroyed ertially	destroy	ed.					
ibby Lodge #2	6H3 6J15	9100	35	lon	7611	1949	2,3,4,5			m. Montana snow coul								

COOPERATIVE SNOW SURVEYS

Summary of Snow Measurements

February 1, 1958

					~ *****
	NO. OF	YEARS		BASIN SNOW	
WATERSHEDS	COURSES	OF	IN	PERCENTAGE	
	AVERAGED	RECORD	1957	1956	Average
Madison River	2	20	58%	41%	67%
Yellowstone Park	8	8-15	78%	50%	72%
Clark's Fork	1	2	72%	43%	
Owl Creek	2	9	85%	35%	50%
Greybull River	2	2-3	117%	120%	
Nowood Creek	5	2	90%	66%	
Shell Creek	7	2	F3%	58%	
Porcupine Creek	2	2	79%	62%	
Tongue River	11	2	83%	62%	
Powder River	5	2	98%	53%	
Crow Creek	1	21	28%	33%	52%
Cheyenne River	1	14	68%	103%	77%



-4-

WYOMING STREAM-FLOW FORECASTS FEBRUARY 1, 1958

BASIN AND TRIBUTARY	Seasonal FORECAST	Stream-	Flow in	il - September 30 Flow in Thousands of Acre l Measured Runoff				
	RUNOFF	15-Yr. Avg.		1955	15-Yr. Avg. 1938-52**			
NORTH POPO AGIE Milford (near)	77	88			87**			
LITTLE POPO AGIE Lander (near	40	85	25	39	48**			
WIND RIVER Dubois (at)	83	81	66	105	102**			
SHOSHONE RIVER Buffalo Bill Dam(below) (3)	667	81	566	788	823			
LARAMIE RIVER Jelm (at) (4)	89	85		46	105*			
ENCAMPMENT RIVER Encampment (near)	147	92	86	72	160*			
NORTH PLATTE RIVER North Gate (at) Saratoga (at)	220 600	90 91	128 319	69 234	245 657			
MEDICINE BOW RIVER Hanna (near)	94	8 5	51	17	111			
SWEETWATER RIVER Alcova (at)	60	82	35	45	73			
GREEN RIVER Warren Bridge (at)	290	87	253	354	333			



WYOMING STREAM-FLOW FORECASTS FEBRUARY 1, 1958

BASIN AND TRIBUTARY	Seasonal FORECAST		low in	tember 30 Thousands asured Run	of Acre Feet
	RUNOFF	15-Yr. Avg.	1956	1955	15-Yr. Avg. 1938-52**
SNAKE RIVER Moran (at) (5)	797	93	738	1010	8 5 8
PACIFIC CREEK Moran (near)	152	92	142	230	166**
BUFFALO FORK Moran (near)	300	84	315	418	356**
GROS VENTRE Kelly (at)	203	78	199	293	261**
HOBACK Jackson (near)	304	7 9	290	448	386**
SNAKE RIVER State Line (at) (5)	2570	87	2516	3298	2949**
SALT RIVER State Line (at)	333	92	231	287	360
BEAR RIVER Evanston (near) Randolph (near)	133 93	94 80	74 26	55 15	142 116*

All stream data taken from observed flow records with the following exceptions:

⁽¹⁾ Observed flow corrected for storage in Bull Lake and Pilot Butte reservoirs.

⁽²⁾ Observed flow corrected for storage in Boysen, Bull Lake and Pilot Butte Reservoirs.

⁽³⁾ Observed flow corrected for storage in Buffalo Bill Reservoir and Hart Mountain Diversion.

⁽⁴⁾ Observed flow corrected for Colorado diversion above station.

⁽⁵⁾ Observed flow corrected for Jackson Lake Storage.

^{*} Less than 15.

^{**} Estimated 1938-52 average.



	· · · · · · · · · · · · · · · · · · ·		SNOW COVER MEASUREMENTS									
DRAINAGE BASIN	No.		1	958		4	ST RECC					
and	or		Date	Snow	Water	Water	Conton					
SNOW COURSE	State	Elev.	of	Depth	Content			.938-52				
			Survey	(In.)	(In.)	1957	1956	Avg.	Record			
MADISON RIVER - YEI	LLOWSTON	E PARK										
Norcis Basin	10E2	7500	1/30	29	5.3	6.6	9.9	7.7*	8			
21 Mile ^m	11E6	7150	1/29	37	8.6	13.0	18.7	11.1	20			
West Yellowstone ^m	11E7	6700	1/28	23	4.2	9.1	12.7	8.0	20			
UPPER YELLOWSTONE -	- YELLOW	VSTONE PA	RK.									
Canyon	10E3	7750	1/31	38	7.7	10.0	15.0	9.9*	13			
Cooke Citym	10D7	7-500	1/30	25	4.6	5.8	8.9	6.3*	14.			
East Entrance :	10E6	7000	2/1	31	7.3	8.9	12.8	8,8*	9			
Lake Camp	10E4	7850	1/31	29	4.5	6.0	15.0	6.8*	12			
Lupine Creek	10E1	7300	1/31	24	4.4	8.2	13.0	7.2*	15			
Norris Basin	10E2	7500	1/30	29	5.3	6.6	9.9	7.7*	8 14			
Sylvan Pass Thumb Divide***	10E5 10E7	7100 7900	$\frac{2}{1}$	38 42	8.1 11.7	10.1 12.8	14.7 NR	10.3* 17.1*	14			
Inumo Divide***	TOE	1900	1/20	12 L	1101	12.0	141/1	1101	11			
LOWER YELLOWSTONE -	- CLARK	S FORK										
Lodgepole	9E1	8200	2/2	27	5.4	7.5	12.8		2			
LOWER YELLOWSTONE -	- WIND F	RIVER										
Big Warm	9F12	8800	1/28	21	3.7	5.3	10.6		3			
Brooks Lake	10F8	9200	1/27	43	11.6	12.6	23.8	16.4*				
Burroughs Creek	9F4	8800	1/29	28	6.1	7.3	17.0	11.6*	9			
Dinwoodie	9F10	10000	1/30	30	6.0	6.7	11.8	8.9*	9			
Dry Croek	9 F 9	9500	1/30	16	2.8	3.5	7.6	4.8*	9			
DuNoir	9F6	8750	1/27	16	2.7	4.5	8.9	6.3*				
Geyser Creek	9F7	8500	1/28	12	2.3	4.2	8.9	5.8*	9 8			
Little Warm	9F8	9500	$\frac{1}{28}$ $\frac{1}{27}$	34 18	7.5 2.9	9.3 4.2	17.9 3.3	12.5*	3			
Sheridan R.S. #2 T-Cross Ranch	9F14 9F3	7500 8000	1/27	13	2.9 3.5	5.2	8.3	5.0*				
Togwotee Pass	9F3 10F9	9600	$\frac{1}{29}$ $\frac{1}{30}$	13 64	15.1	16.9	29.4	19.2	22			
rogwotee rass	TOFS	3000	1/30	04	TO T	10.0	60 G	1000	LL			



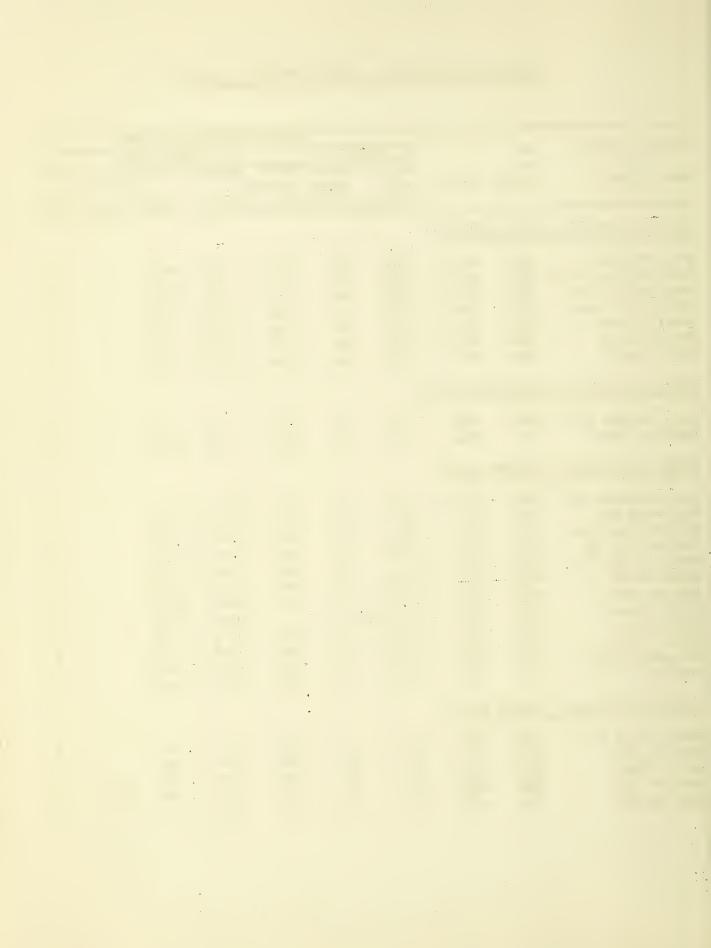
			1	SNO	ON COVES	Mar A C III	REMENTS		
DRAINAGE BASIN	No.		79	53	ON COATUL		AST REC		
and	or		Dato	Snow	Water	<u>.</u>	Conten		Prior
SNOW COURSE	State	Elov.	of		Content			938-52	Yrs.
			Survey	(In.)	(In.)	1957	1956	Avg.	Rocor
	······		<u> </u>			J			
LOWER YELLOWSTONE -	POPO A	GIE RIVE	R						
Blue Ridge	8 G2	9500	2/2	26	5.5	6.0	15.6	8.2**	16
Bruce's Camp	8 G 5	6500	2/5	8	1.6	0.6	0.8		2
Hobbs Park	9G3	10000	2/4	31	7.0	10.6	19.3	12.9*	9
Mosquito Park R.S.	9G4	9500	2/4	17	3.3	4.2	8.9	5.6*	14
Sawmill Glade	8 Gl	8 5 00	2/2	22	4.8	4.1	8.0	5,3*	15
South Pass	8 G3	9000	2/2	30	7.1	9.0	17.0	9.8**	1 ϵ
St. Lawrence R.S.	9F11	9000	1/31	12	2.0	3.6	8.9	4.7*	14
Trout Creek	9 G 2	8400	2/4	14	3.2	3.6	4.0	3.5*	9
LOWER YELLOWSTONE -	OWL CR	EEK							
Beavers Mill	9F2	8900	1/28	13	2.2	3.2	7.2	5,3*	9
Owl Creek	8F1	8700	1/28	12	2:4	2.2	5.8	3.9*	9
LOWER YELLOWSTONE -		LL RIVER	·						
Timber Creek #2	9E3	8800	1/29	11	2.1	2.0	1.5	1.9*/	2
Wood River #2	9Fl	0008	1/29	16	3.3	2.6	3.0		3
LOWER YELLOWSTONE -	SHOSHO	NE RIVER							
Carter Mountain			1/31	17	3.1	4.0			1
East Entrance	10E6	7 000	2/1	31	7.3	8.9	12.8	8.3*	9
Sylvan Pass	10E5	7100	2/1	38	8.1	10.1	14.7	10.3*	14
LOWER YELLOWSTONE -	NOWOOD	CREEK	,						
Cold Springs Camp	7E25	8700	2/8	25	4.0	4.8	6.1		2
Medicine Lodge Lakes		9500	2/8	35	6.6	7.2	9.2		2
Munkres Pass	7E8	9700	2/7	28	5.4	6.0	9.0		3
Onion Gulch	7E27	8100	2/7	27	5.0	6.4	8.2		2
Tensleep Lake	7E26	9075	2/8	34	6.7	6.4	9.4		2
Tyrell R. S.	7 E7	8300	2/8	26	4.8	4.6	6.6		1

^{*/} Timber Creek #1 abandoned. Timber Creek #2 average obtained from relationship of old and new courses.



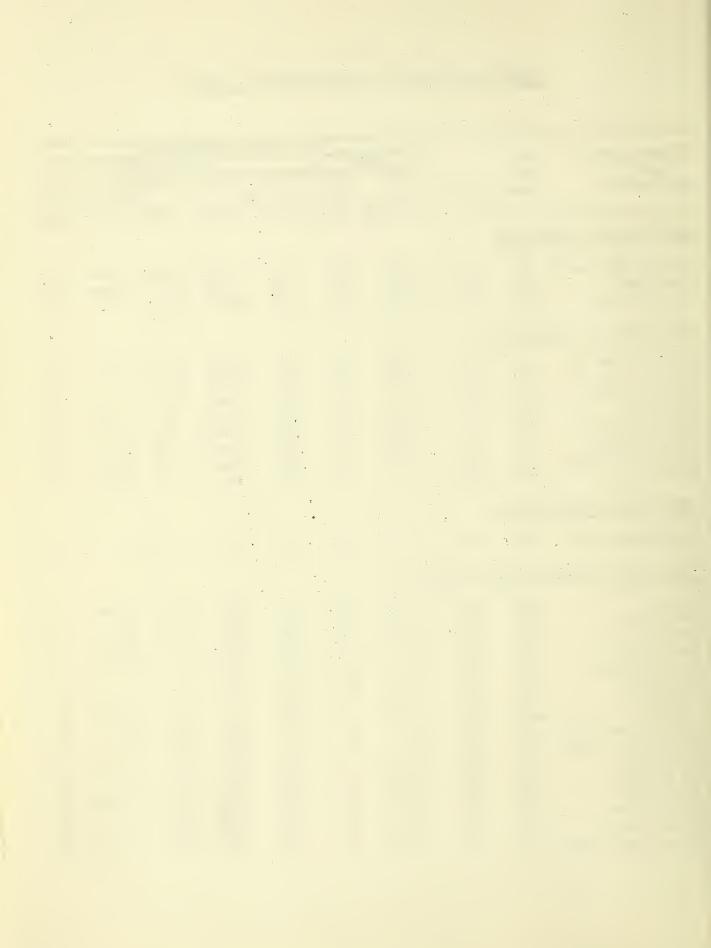
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	 		,		SNOW COV	אַבוּאוּן סים ∧ַ	SUREMENTS	
DRAINAGE BASIN	No.		195		31409 004		AST RECORD	
and	or		Date	Snow	Water	•	Content (In.)	Frior
SNOW COURSE	State	Elev.	of		Content	111001	1938-52	
	2000	22.000	Survey	(In.)	(In.)	1957	1956 Avg.	Record
			jourvoy	(+1110)	(1114)	12001	1000 11/60	2.0001
LOWER YELLOWSTONE -	SHELL	CREEK						
Bald Mountain	7E21	9600	1/28	39	8.4	11.8	14.3	2
Beaver-Tongue Div.	7E20	9200	1/28	35	7.8	11.2	14.1	2
Bone-Spring Div.	7E18	9200	1/29	34	7.7	9.9	13.6	2
Granite Cr. Camp	7E22	7800	2/7	18	2.8	3.8	4.3	2
Granite Pass	7E17	8950	1/29	33	$7 \cdot 4$	10.2	13.5	2
Ranger Creek	7E4	8800	2/6	29	4.8	6.5	7.4	2
Shell Creek	7E23	9600	2/3	36	7. 5	10.0	12.2	2
LOWER YELLOWSTONE -	PORCUP	INE CREE	K					
D. C	-T	m#00	0 /2	3 P2	0 4	0 0		
Five Springs Falls	7E31	7500	2/3	13	2.4	2.6	4.6	2
Medicine Wheel	7 E30	9000	1/28	30	6.8	9.0	10.2	2
LOWER YELLOWSTONE -	TONGUE	RIVER						
Beaver-Tongue Div.	7E20	9200	1/28	35	7.8	11.2	14.1	2
Big Goose #2	7E32	7700	2/1	26	3.6	4.4	6.6	L
Bone-Spring Div.	7E18	9200	$\frac{1}{29}$	34	7.7	9.9	13.6	2
Burgess R.S. #2	7E33	7900	1/28	18	3.4	4.1	5.9	2
Dome Lake #2	7E34	8800	2/1	27	4.8	6.0	8.0	2
Gloom Creek	7E14	9300	1/30	31	6.4	6.9	8.9	2
Granite Pass	7E17	8950	1/29	33	7.4	10.2	13.5	2
North Tongue	7E15	8800	Driftin			4.4	7.6	2
Sibley Lake	7E11	8000	1/31	ີ28	5.5	5.4	7.3	2
Sucker Creek	7E12	9000	1/30	28	6.3	6.3	8.0	2
Steamboat Point	7E10	7500	1/31	17	3.4	3.4	5.0	2
Wood Rock G. S.	7E13	8500	1/29	23	4.9	6.0	8.6	2
LOWER YELLOWSTONE -	POWDER	RIVER	ŕ					
Mudday Chaola C S	7TO	7500	2/5	7.7	9 7	2 2	4.0	9
Muddy Creek G.S. Munkres Pass	7E28	7500	2/5	11	2.3	2.2	4.0	2
	7E8	9700	2/7	28	5.4	6.0	9.0	3
Onion Gulch Soldier Park	7E27	8100	2/7	27	5.0	6.4	8.2	2
	7E5	8700	2/4	16	3.0	1.6	7.6 3.0	
Sour Dough	7E6	8500	2/5	19	3.8	3.8	7.7	2



-9-

DRAINAGE BASIN No. and or SNOW COURSE State Elev. Date Snow Water Water Content(In.) Frication of Depth Content Survey (In.) (In.) 1957 1956 Avg. Recomposition of Depth Content Survey (In.) (In.) 1957 1956 Avg.	
and or Date Snow Water Water Content(In.) Price of Depth Content 1938-52 Yrs Survey (In.) (In.) 1957 1956 Avg. Reco	
SNOW COURSE State Elev. of Depth Content 1938-52 Yrs Survey (In.) (In.) 1957 1956 Avg. Reco	
Survey (In.) (In.) 1957 1956 Avg. Reco	
NORTH PLATTE - SWEETWATER	
Grannier Meadows #1 8G4 9000 2/2 33 7.0 8.4 15.6 9.6** 16	
South Pass 8G3 9000 2/2 30 7.1 9.0 17.0 9.8** 16	
Larsen Creek 9G6 9000 2/3 36 8.3 NR 11.2	
NORTH PLATTE - LARAMIE RIVER	
Brooklyn Lake #1 6H1 10200 1/28 48 13.0 17.0 19.3 13.6 20)
Brooklyn Lake #2 6H13 10200 1/28 48 12.4 16.5 19.3	
Deadman Hill ^c 5J6 10300 2/2 42 9.2 9.5 14.0 7.3 14	
Fox Park 6H12 9200 1/28 21 4.1 6.4 5.8 4.0** 21	
Hairpin Turn #2 6H2 9500 1/28 26 6.1 9.6 9.9 7.1 20	,
Libby Lodge #2 6H3 8700 1/28 27 6.2 8.8 9.2 6.2 20	
Pole Mountain #2 5H1 8700 1/29 11 1.6 5.7 4.8 3.1 21	
Roach ^c 6J8 9800 2/2 44 10.1 10.7 14.0 10.6** 16	
NORTH PLATTE - CROW CREEK	
Pole Mountain #2 5H1 8700 1/29 11 1.6 5.7 4.8 3.1 21	
NORTH PLATTE - ABOVE SEMINOE RESERVOIR	
Albany 6H11 9400 2/4 37 9.1 10.9 12.0 9.6*)
Bottle Creek 6H8 8200 1/30 34 7.7 13.3 11.8 8.2 20	
Boxelder 5G1 9000 1/31 19 3.4 5.0 2.8 3.0*	
Cameron Pass ^c 5J1 10300 2/2 60 13.2 12.8 18.0 12.5** 19	
Casper Mountain 6G1 8700 2/7 31 7.0 9.6 7.0	
Columbine ^c 6J3 9300 1/30 63 14.9 18.1 21.1 14.3 22	
Fox Park 6H12 9200 1/28 21 4.1 6.4 5.8 4.0** 21	
LaBonte 5G2 8450 1/29 17 3.0 4.7 3.3 4.3*	
North Barrett Cr.#2 6H5 9400 2/1 58 14.1 15.4 15.5 11.6 20)
North French Creek 6H4 10200 NR 24.1 23.1 16.4 20	
Northgate ^c 6J7 8500 1/30 19 2.6 5.8 5.0 4.4* 8	
Old Battle 6H10 9800 1/30 70 21.1 26.6 25.0 19.2 20	
Park View ^c 6J2 9200 1/29 21 3.7 7.8 6.5 6.0** 20)
Ryan Park #2 6H6 8400 2/1 32 7.1 10.0 10.2 6.8 20)
Webber Spring 6H9 9000 1/30 42 9.9 16.5 15.4 10.8 20)
Willow Creek Pass ^c 6H5 9500 1/29 30 6.2 10.0 10.0 7.6** 18	3



-10-WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1958

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DRAINAGE BASIN	No.		1958		NOW COVE		UREMENT L RECOR		
and	or		Date	Snow	Water	š	Conten		Price
SNOW COURSE	State	Elev.	of		Content	Madoi		938-52	Yrs.
Sirott Go Catoli	5000	77.0 / 8	Survey	(In.)	(In.)	1957	1956	Avg.	Recor
			10 002 10 3	( ==== /	(1111)	12001	1000	8-	
MISSOURI - CHEYENNE	RIVER								
Upper Spearfish	3E1	6500	1/30	19	3.4	5.0	3.3	4.4*	14
UPPER COLORADO - GRI	EEN RIV	ER							
Big Park	10G11	8700	NR						
Dutch Joe R.S.	9G5	8700	1/30	32	6.6	7.7	8.3		2
East Rim Divide	10F17	7950	1/27	27	6.5	6.7	10.7		3
Green River Lakes	9F16	8100	1/29	15	3.3	3.7	4.8		2
Gros Ventre Summit	10F19	8750	1/30	32	6.7	7.0	13.6		2
Kelly R. S.	10G12	8200	NR						
Kendall R. S.	10F15	7900	1/29	26	5.8	6.3	9.9		2
Loomis Park	10F16	8500	NR			9.4	18.9		2
Mulligan Park	9Fl	8900	1/28	26	6.4	7.4	10.8		2:
Old Battle	6H10	9800	1/30	70	21.1	25.6	25.0	19.2	20
Piney LaBarge	10G10	8820	NR			11.9			1
Poison Meadows	10 <b>G</b> 6	8500	NR						
Snyder Basin R.S.#2	10G13	8040	NR			9.6	15.4		2
Soda Lake	10G14	8300	2/4	48	12.5	13.1			1
Triple Peaks	10G15	8500	2/4	64	18.7	15.6			1
SNAKE RIVER - ABOVE	JACKSO	N LAKE							
Α •	3.073	0050	7 /00	7.0	70.7	10 %	01 0	2.2 62	0.0
Arizona***	10F1	6850	1/29	39	10.1	12.3	21.8	11.7	28
Aster Creek***	10E8	7700	1/28	53	16.4	19.0	36.8	20.0	28
Base Camp***	10F2	6900	1/29	40	9.7	12.4	20.1	13.3*	11 28
Coulter Creek***	10E10 10E13	7600 7200	$\frac{1}{27}$ $\frac{1}{28}$	46 48	13.0 14.1	$15.7 \\ 14.9$	24.0 25.8	13.8 14.6	28
Glade Creek***  Grassy Lake :	10E15	7265	$\frac{1}{2}$	71	21.1	24.0	36.8	21.9**	
		. <b>73</b> 00	1/29	43	11.6	12.9	22.9	12.5	28
Lewis Lake Div. ***	10E14	7900	1/28	72	23.6	27.3	50.5	27.4	28
Moran***	10E9 10F4	6800	1/29	43	8.7	8.2	14.0	7.8	28
Moran Bay***	10F4 10F3	6800	1/29	53	14.1	14.9	22.8	13.5	28
Snake River Sta.***		6780	1/28	45	12.3	14.3	23.9	13.0	28
Thumb Divide ***	10E12	7900	1/28	42	11.7	12.8	NR	17.1*	11
THAMB DIVIGGAAA	1001	1300	1/20	ΙN	TT# 1	75.0	TATE	J. 1 4 J. 1	11.

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-11-WYOMING SNOW SURVEYS - ABOUT FEBRUARY 1, 1958

					SNOW CO				
DRAINAGE BASIN	No.			1958	-	1	ST RECC		
and	or		Date	Snow	Water	Water	Conten		Frior
SNOW COURSE	State	Elev.	of	Depth				1938-52	
			Survey	(In.)	(In.)	1957	1956	Avg.	Record
7. G. G. G. T. L. T. D. D. T. T.	********								
JACKSON LAKE TO PAL	JISADES								
Afton R. S.	10G4	6200	1/29	23	4.2	4.1	3.3	3.8	22
Base Camp	10F2	6900	1/29	40	9.7	12.4	20.1	13.3*	11
Blackrock	10F7	8600	1/30	52	11.8	12.6	21.9	14.8	22
Bryan Flat	10F14	6250	1/27	32	7.7	5.8	8.1	6.7	22
CCC Camp	10G7	7500	1/29	37	7.9	7.8	10.5	7.9	22
East Rim Divide	10F17	7950	1/27	27	6.6	6.7	10.7	, • •	3
Four Mile Meadows	10F6	7770	1/30	36	7.5	8.4	13.4	9.1	22
Greys Boundary	10F18	<b>5</b> 800	1/30	46	10.2	6.3	7.8	7.5	22
Gros Ventre Summit	10F19	8750	1/30	32	6.7	7.0	13.6	, , ,	2
Grover Park Divide	10 <i>G</i> 3	7500	1/30	41	8.4	7.5	9.8	7.5	22
Loomis Park	10F16	8500	NR			9.4	18.9	, , ,	2
Poison Meadows	10 <i>G</i> 6	8500	NR				20.0		_
Salt River Summit	10 <b>G</b> 8	7900	1/29	44	9.9	10.0	14.8	11.2*	9
Snow King Mtn. #1	10F11	7600	1/26	31	7.1	6.0	12.2	8.1*	7
Snow King Mtn. #2	10F12	7600	1/26	31	6.8	5.7	10.0	0 7 2	3
Teton Pass #2	10F13	8500	1/31	86	22.4	19.4	35.6	24.3*	13
Togwotee Pass	10F9	9600	1/30	64	15.1	16.9	29.4	19.2	22
Turpin Meadows	10F5	6930	1/30	34	6.8	8.3	12.0	7.4	22
Yellowjacket	10F10	7675	1/29	24	3.0	3.5	7.3	4.2*	11
2 - 2 - 3 2			_,				,		
BEAR RIVER									
CCC Comp	10 <b>G</b> 7	7500	1/29	37	7.9	7.8	10.5	7.9	22
CCC Camp Salt River Summit	10G7 10G8	7900 7900	1/29	57 44	9.9	10.0	14.8	11.2*	22 9
pare windt pummit	1060	1900	1/23	,T,T	3.3	10.0	T#• Q	TT.07*	Э

^{*} Average of all past data.

^{**} Average is for 15 years of data within and adjacent to the 1938-52 period.

^{***} February, 1930-50 water contents estimated from January 15 and February 15 snow surveys and Snake River climatological data.

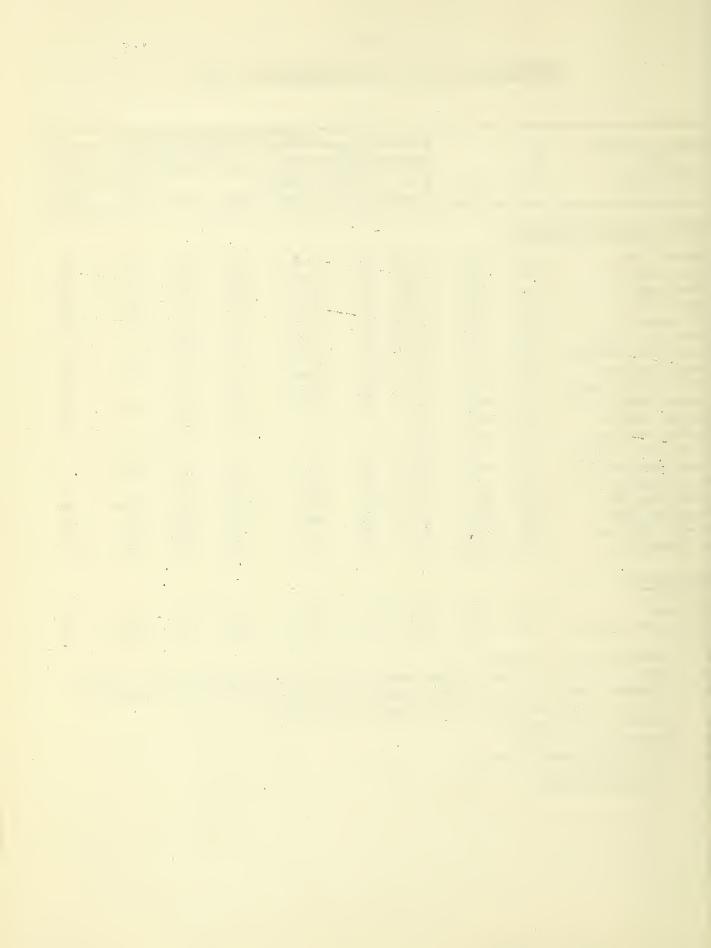
c Colorado snow courses.

m Montana snow courses.

s South Dakota snow courses.

u Utah snow courses.

Adjacent drainago.



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# STATUS OF WYOMING AND SOUTH DAKOTA RESERVOIR STORAGE - FEB. 1, 1958

BASIN		USABLE	USABLE	STORAGE	- 1000	ACRE FEET
and/or	RESERVOIR	CAPACITY				15-Yr. Avg.
STREAM		1000's AF	1958	1957	1956	1938-52
	<del></del>				<del></del>	<del></del>
Snake River	Jackson	847.0	613.1	85.5	350.4	479.3
North Platte	Seminoe	981.8	613.5	255.5	275.7	385.9*
North Platte	Pathfinder	1011.0	654.9	229.9	348.6	362.3*
North Platte	Alcova**	190.5	28.3	171.7	170.0	82.5*
North Platte	Guernsey	39.8	28.0	31.7	23.1	34.9
North Platte	Southerland	185.0	NR	26.0	56.8	47.6
North Platte	Kingsley	1995.0	NR	565.0	824.5	1087.7*
North Platte	Minatare	60.8	32.4	2.0	16.1	23.4
Kansas Basin	Bonny	39.9	39.3	36.0	35.6	18.5*
Kansas Basin	Swanson Lake	116.1	121.6	47.6	46.4	
Kansas Basin	Enders	36.0	35.5	31.5	31.0	20.0*
Kansas Basin	Harry Strunk	33.9	33.0	19.0	18.4	23.6*
Kansas Basin	Harlan County	252.9	256.9	72.5	71.6	
Kansas Basin	Cedar Bluff	176.8	180.6	119.0	118.7	173.8*
Laramie River	Wheatland	70.4	NR	4.5	1.0	28.5
Belle Fourche	Belle Fourche	185.2	59.6	28.4	29.8	95.7*
Belle Fourche	Keyhole	190.3	1.2	11.2	18.1	
Shoshone River	Buffalo Bill	439.8	189•4	143.9	139.7	277•4
Wind River	Boysen	560.0	322.4	240.6	81.9	
Wind River	Pilot Butte	31.6	14.4	9.2	11.7	13.0*
Wind River	Bull Lake	152.0	75.1	76.0	72.6	63.7*
Cheyenne River	Angostura	92.0	56.8	25.4	77.2	52.0*
Cheyenne River	Deerfield	15.1	10.9	7.6	9.7	12.8*
Grand River	Shadehill	84.0	79.4	76.6	71.0	
Green River	Big Sandy	38.3	33.4	9.9	6.1	

^{*} Average is for less than 15 years of record in the 1938-52 period.

^{**} Alcova, downstream from Seminoe and Pathfinder includes 160,170 acrefeet of storage that is unavailable to the Kendrick Project.

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Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"